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| APPLICATION NO.           | FILING DATE                 | FIRST NAMED INVENTOR | ATTORNEY DOCKET NO. | CONFIRMATION NO. |
|---------------------------|-----------------------------|----------------------|---------------------|------------------|
| 10/614,445                | 07/07/2003                  | Simon J. Waddelow    | 20020513.ORI        | 7524             |
| 23409 75                  | 7590 09/01/2005             |                      | EXAMINER            |                  |
|                           | EST & FRIEDRICH,            | NGUYEN, DINH Q       |                     |                  |
| 100 E WISCON<br>MILWAUKEE | ONSIN AVENUE<br>E. WI 53202 |                      | ART UNIT            | PAPER NUMBER     |
| <u>-</u>                  | ,                           |                      | 3752                |                  |

DATE MAILED: 09/01/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

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|  | Application No.  | Applicant(s)  |  |  |
|--|--|---|--|--|
| Off: . A. 1' O   | 10/614,445   | WADDELOW, SIMON J.  |  |  |
| Office Action Summary  | Examiner   | Art Unit  |  |  |
|  | Dinh Q. Nguyen   | 3752  |  |  |
| The MAILING DATE of this communication app<br>Period for Reply   | ears on the cover sheet with the c   | orrespondence address   |  |  |
| A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA  - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication.  - If NO period for reply is specified above, the maximum statutory period w  - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).   | ATE OF THIS COMMUNICATION  16(a). In no event, however, may a reply be tim  iiil apply and will expire SIX (6) MONTHS from a  cause the application to become ABANDONE | l. ely filed the mailing date of this communication. O (35 U.S.C. § 133). |  |  |
| Status   |  |   |  |  |
| 1) Responsive to communication(s) filed on 20 Ju   | ne 2005.   |   |  |  |
| ·— · · · · · · · · · · · · · · · · · ·   | action is non-final.   | ÷   |  |  |
| 3) Since this application is in condition for allowar  | Since this application is in condition for allowance except for formal matters, prosecution as to the merits is  |   |  |  |
| closed in accordance with the practice under E   | x parte Quayle, 1935 C.D. 11, 45   | 3 O.G. 213.   |  |  |
| Disposition of Claims  |  |   |  |  |
| <ul> <li>4)  Claim(s) 1-20 is/are pending in the application.</li> <li>4a) Of the above claim(s) 16-20 is/are withdraw</li> <li>5)  Claim(s) is/are allowed.</li> <li>6)  Claim(s) 1-15 is/are rejected.</li> <li>7)  Claim(s) is/are objected to.</li> <li>8)  Claim(s) are subject to restriction and/or</li> </ul>  | n from consideration.  |   |  |  |
| Application Papers   |  |   |  |  |
| 9) The specification is objected to by the Examine 10) The drawing(s) filed on is/are: a) access applicant may not request that any objection to the Replacement drawing sheet(s) including the correct and the output of the output of the second sheet and the second sheet are sheet as a second sheet and the second sheet are sheet as a second sheet and the second sheet are sheet as a second sheet are sheet as a second sheet and the second sheet are sheet as a second sheet a | epted or b) objected to by the Eddrawing(s) be held in abeyance. See ion is required if the drawing(s) is obj  | e 37 CFR 1.85(a).<br>ected to. See 37 CFR 1.121(d).                       |  |  |
| Priority under 35 U.S.C. § 119   |  |   |  |  |
| 12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of:  1. Certified copies of the priority documents 2. Certified copies of the priority documents 3. Copies of the certified copies of the priority application from the International Bureau * See the attached detailed Office action for a list   | s have been received.<br>s have been received in Applicati<br>ity documents have been receive<br>ı (PCT Rule 17.2(a)).   | on No ed in this National Stage   |  |  |
| Attachment(s)  1) Notice of References Cited (PTO-892)  2) Notice of Draftsperson's Patent Drawing Review (PTO-948)  3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date 6/16/05.   | 4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:   |   |  |  |

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#### **DETAILED ACTION**

1. Claims 16-20 withdrawn from further consideration pursuant to 37 CFR 1.142(b) as being drawn to a nonelected Species, there being no allowable generic or linking claim. Election was made **without** traverse in the reply filed on 6/20/05.

## Claim Rejections - 35 USC § 102

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 3. Claims 1-3, 5, 7-9 are rejected under 35 U.S.C. 102(b) as being anticipated by Haruch.

Haruch discloses a spray nozzle system comprising: a spray tip 20 with an elongated slot-shaped discharge opening (see figure 1), a cap body 22, a flow regulating insert 40 (see figure 2), the insert 40 also has a metering orifice 45 and an interchangeable portion 47 and 47' for modifying the flow performance (see figures 5 and 6).

## Claim Rejections - 35 USC § 103

- 4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
  - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

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5. Claims 4, 6, 10-15 are rejected under 35 U.S.C. 103(a) as being unpatentable over Haruch in view of Lincoln.

Haruch teaches all the limitations of the claims except for the spray pattern of the nozzles overlap but do not interfere with each other. However, Lincoln discloses a spray nozzle system having the nozzle made from moldable material (see column 3, line 45), sealing o-ring 68/36, bayonet twist-on retaining structure 50/66, a unitary structure for cap 34 and tip 42, a slot-shaped opening 46, and the arrangement of the nozzle such that the spray pattern of the nozzles overlap but do not interfere with each other as shown in figures 1-3. Therefore, it would have been obvious to one having ordinary skill in the art to have provided the device of Haruch with the arrangement of the nozzles such that the spray pattern overlap but do not interfere with each other as suggested by Lincoln. Doing so would provide an effective spray nozzle system (see column 2, lines 35-41).

With respect to claim 6, at the time the invention was made, it would have been would have been an obvious matter of design choice to a person of ordinary skill in the art to have droplets with an average size ≥600 microns.

#### Conclusion

6. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. The following patents are cited to show the art with respect to a spray nozzle system: Wahlin, and Bendig et al.

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7. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Dinh Q. Nguyen whose telephone number is 571-272-4907. The examiner can normally be reached on Monday-Thursday 6:00-4:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, David Scherbel can be reached on 571-272-4919. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Dinh Q Nguyen Primary Examiner

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